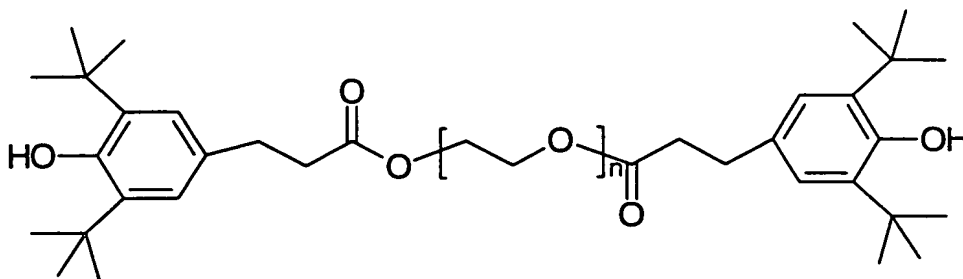


We claim:

1. A mixture comprising amorphous phenolic stabilizers and at least one reducing agent, wherein the mixture has a color value with a Hazen number < 100 to DIN 53409 and comprises the following compound as phenolic stabilizer:

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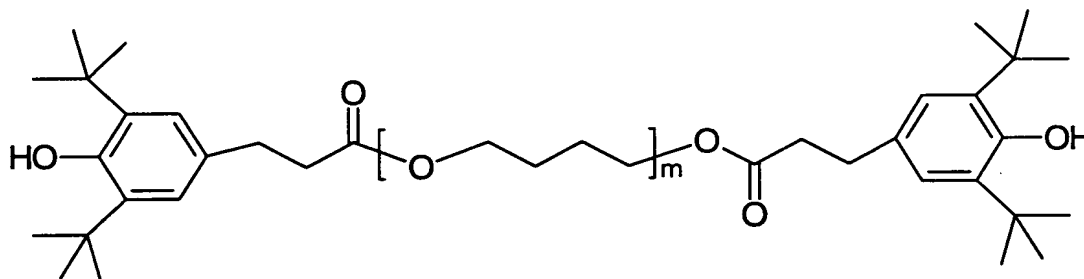
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the selection of n is such that, in the stabilizer mixture comprising the individual stabilizer molecules, the weight-average molecular weight of the stabilizer mixture is greater than the number-average molecular weight of the stabilizer mixture.

2. A mixture comprising amorphous phenolic stabilizers and at least one reducing agent, wherein the mixture has a color value with a Hazen number < 100 to DIN 53409 and comprises the following compound as phenolic stabilizer:

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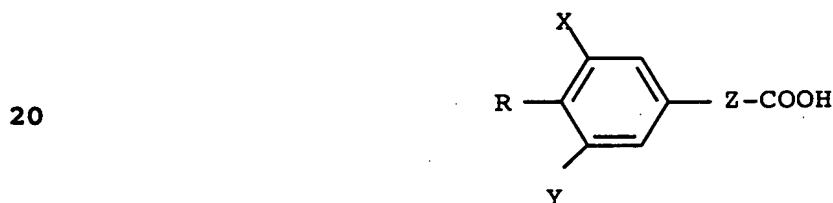
where n is 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10.

3. A mixture as claimed in claim 1 or 2, which comprises, as reducing agent, at least one organophosphorus compound of trivalent phosphorus.

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4. A mixture as claimed in claim 1 or 2, wherein the ratio of phenolic stabilizer to reducing agent by weight is from 10 000 : 1 to 10 : 1.
- 5 5. A plastic or lubricating oil or vegetable or animal oil comprising a mixture as claimed in any of claims 1 to 4.
6. A process for preparing phenolic stabilizers by esterification, transesterification, transamidation, and/or  
10 amidation, which comprises carrying out the esterification, transesterification, transamidation and/or amidation in the presence of at least one reducing agent.
7. A process as claimed in claim 6, wherein use is made of the  
15 following phenolic carboxylic acid or of a derivative of this carboxylic acid:



where

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R is -OH,

30 X and Y, independently of one another, are hydrogen, or a straight-chain, branched-chain, and/or cyclic alkyl group having from 1 to 12 carbon atoms,

Z is an alkylene radical having from 1 to 12 carbon atoms.

8. A process as claimed in claim 6, wherein the alcohol used  
35 comprises at least one polyether with a molar mass of from 120 to 3000 g/mol.
9. A process as claimed in claim 6, wherein the content of  
40 reducing agents in the reaction mixture for preparing the ester and/or amide, preferably for preparing the phenolic stabilizer, is from 0.01 to 10% by weight, based on the total weight of the mixture.
10. A mixture comprising phenolic esters or phenolic amides  
45 obtainable by a process as claimed in any of claims 6 to 9.

Mixtures comprising phenolic stabilizers

Abstract

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A mixture comprising amorphous phenolic stabilizers and at least one reducing agent.

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